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UNITED NATIONS DEVELOPMENT PROGRAMME

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ENGLISH

APPROVAL OF UNDP/UNSO ASSISTANCE TO A PROJECT OF CAPE VERDE

IPF: (1987-91) $7 218 000
(CVI/90/X02) - Wind Energy for Rural Areas (Phase II)

Date of approval by the AC: 1/	23 October 1991
Expected duration:	Three years
Proposed executing agency:	Government
Government implementing agency:	Institute for Technological Studies (INIT)
Proposed UNSO contribution:	$1 040 400 Source of funds: UNSO Trust Fund
Previous UNSO contribution:	$2 049 300 (Phase I)
Total UNSO budget:	$3 680 700

Project background

Since the mid 1980's, Cape Verde has been in a stage of rapid development, which has led to an increased need and demand for both domestic and industrial energy. As the conventional forms of energy are costly to the country,. either in terms of foreign currency or in terms of forest resources, the Government is actively exploring alternative sources of energy. In the National Development Plan (1986-1990)* priority is assigned to wind energy as the most promising alternative energy for the country. The usually strong potential of wind energy for the Cape Verde was confirmed in an assessment financed by UNSO. In 1982, UNSO had undertaken a pilot project in the domain of wind energy, with the purpose of establishing a national energy system for rural areas and a complementary grid-connected system for urban areas. The project ended with good results for the latter, but without having fully developed the system for rural areas. Therefore, a second phase has been formulated and UNDP/UNSO assistance requested under the present approval.

Description of project

The purpose of the project is to prepare for an investment project planned by the Government for a bilateral agreement with the Danish Government in the wind energy sector. One portion of the project is under negotiation, following the positive results of the first phase of the UNSO project. Three large-scale wind farms will be established to supplement the diesel-powered electricity

1/ This Fact Sheet reflects the status of the project/revision at the time it was approved by the Action Committee; modifications to the project/revision may have occurred subsequently.

*The new Plan (1992-1995) is under elaboration.

production on Santiago, Sal and San Vincente. Another portion of the investment, the establishment of a number of autonomous wind/diesel plants for rural areas is pending the outcome of the present second phase of the UNSO project. This second phase will complete the development of the combined wind-diesel system for the Assomada rural center which has been initiated under the project's first phase and study the system's viability and replicability elsewhere in rural areas of the country. Apart from technical and economic aspects, project activities will include the study of the organizational aspects of wind energy production. The project will strengthen the national capability in the Centre for Renewable Energy (CER) through training, locally and abroad. To prepare the utility agency ELECTRA and the municipality of Assomada for the future handover of the installations, the project will include training for their staff as well. Special attention will be paid to identifying women for training by the project since women are apt to be less mobile than men, in the Cape Verde.

Inputs

UNDP/UNSO will provide technical assistance under subcontracts including project supervision, specialized consultancies, a training programme, and suppliers' services on the installations; a new wind energy system; spare parts; administrative support; operations and maintenance; an evaluation mission; and agency support costs.

Financial data

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Personnel	55 000
Subcontract	460 000
Training	32 600
Equipment	193 000
Miscellaneous	247 000
Support costs	52 800
Total	1 040 400

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